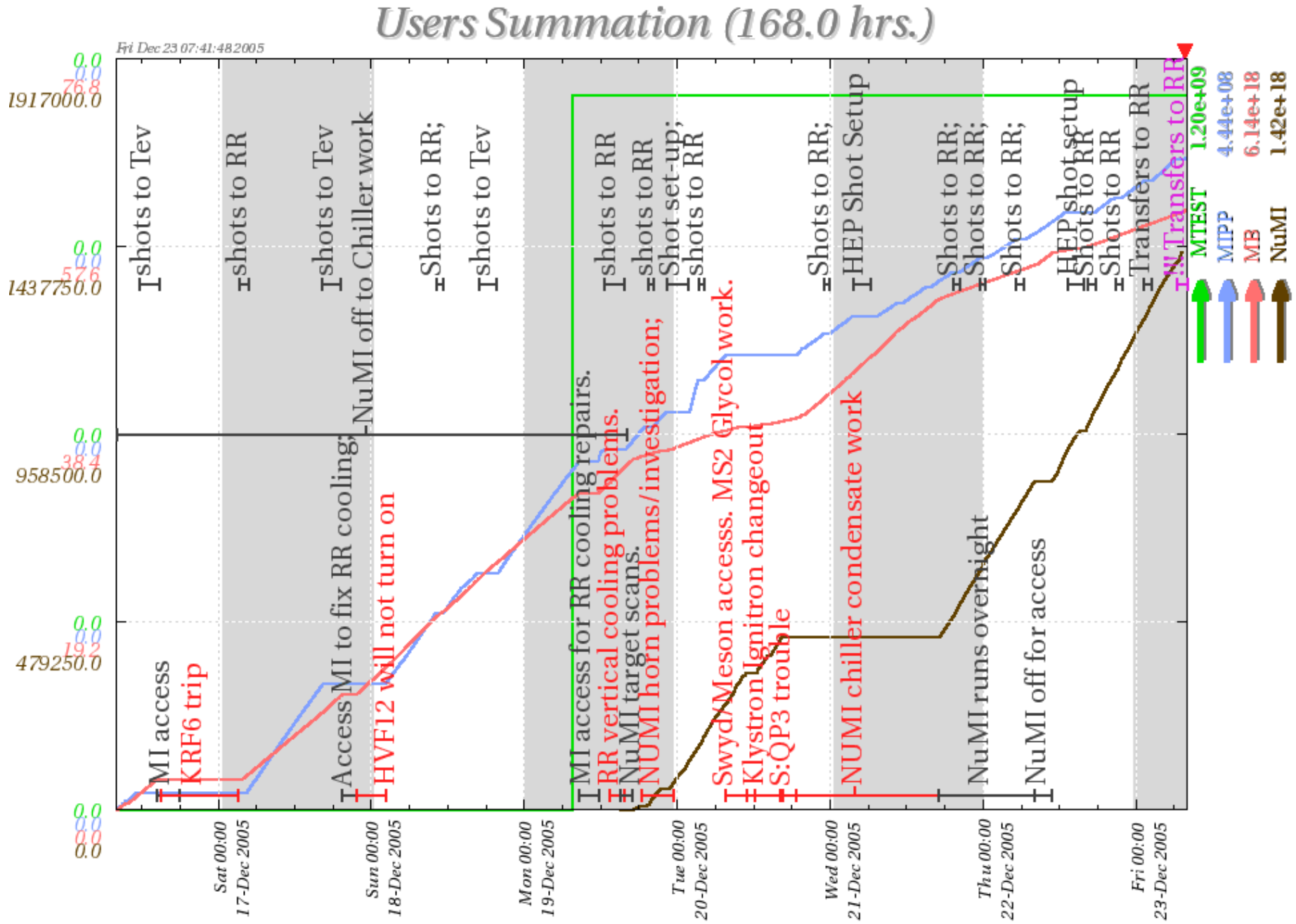
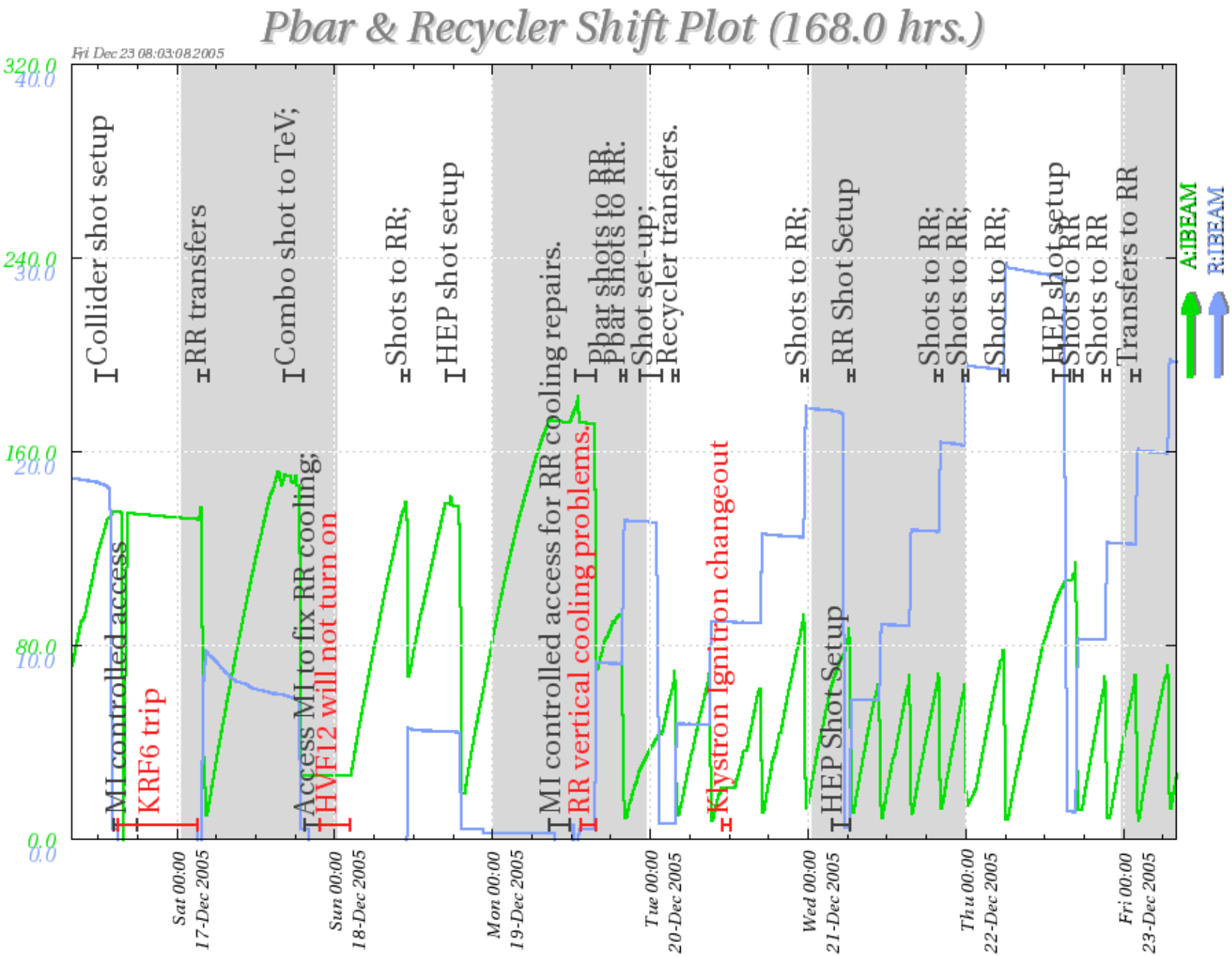
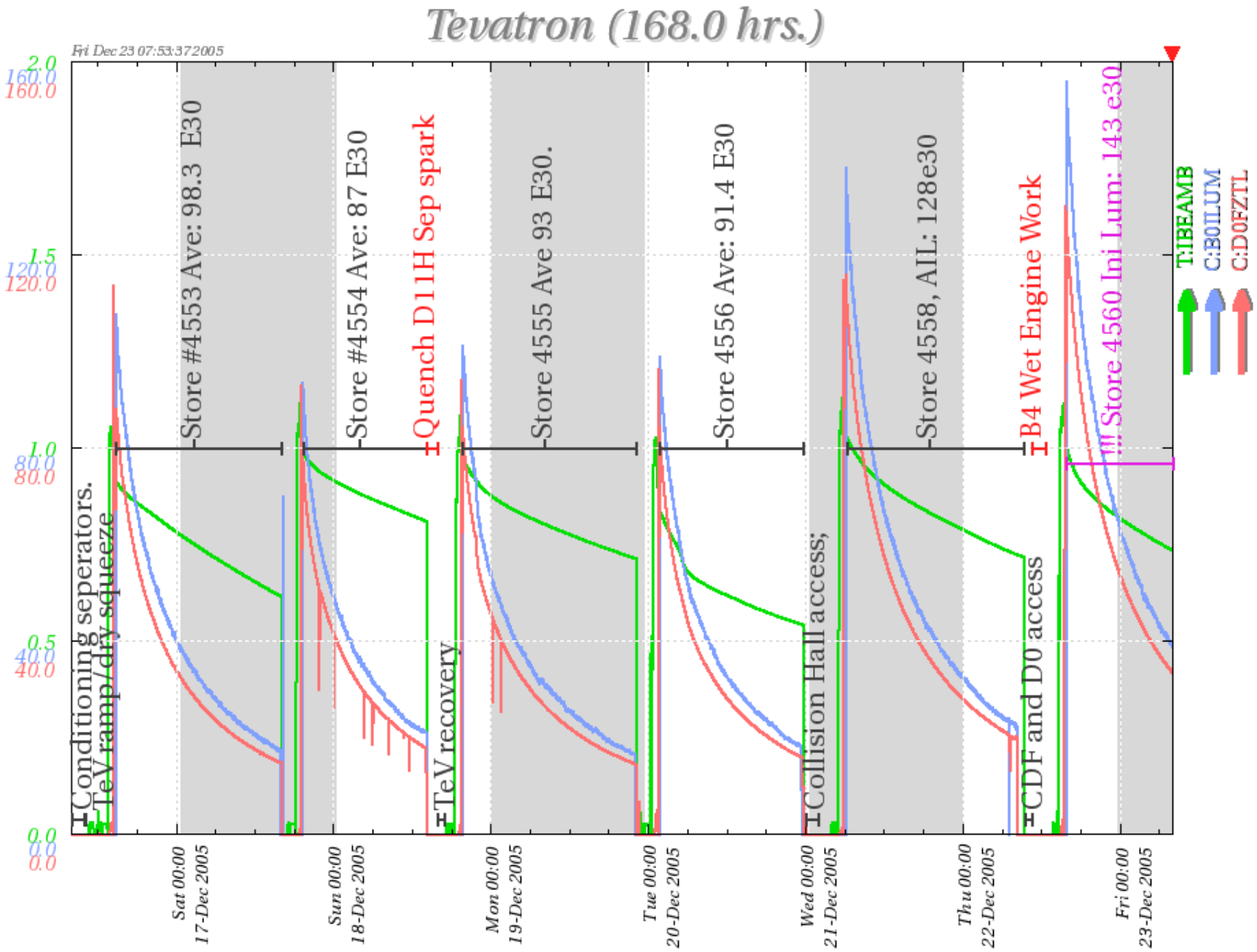
Accelerator Week in Review

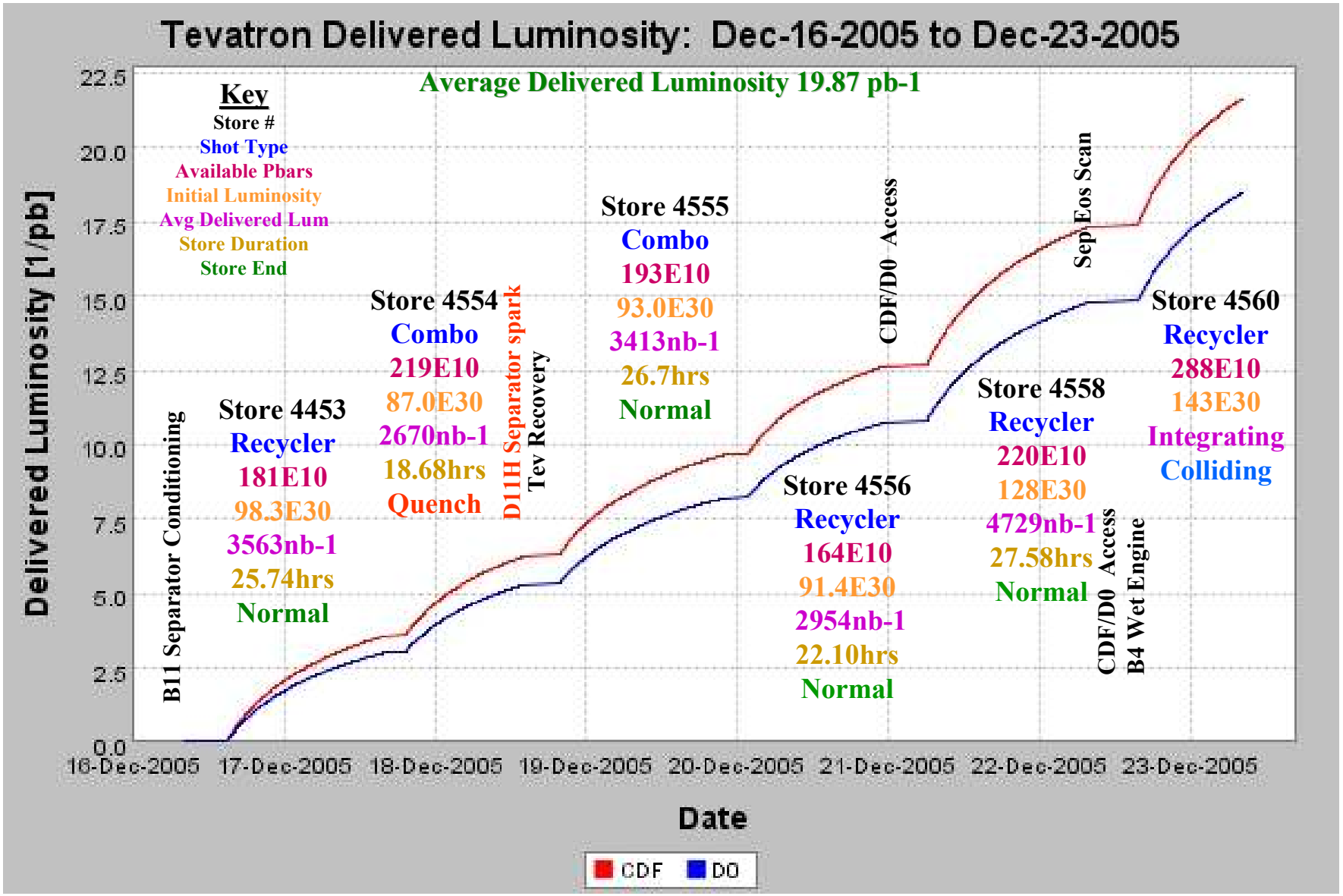
- Part I: Regular 9am Scheduling Meeting
  - Crew Chief Summary
  - 48 hour machine summaries and study requests
  - Operational Plan
- Part II: Weekly Machine Reports
  - Operational Summary – Salah Chaurize
  - Weekly Machine Reports – Machine Coordinators

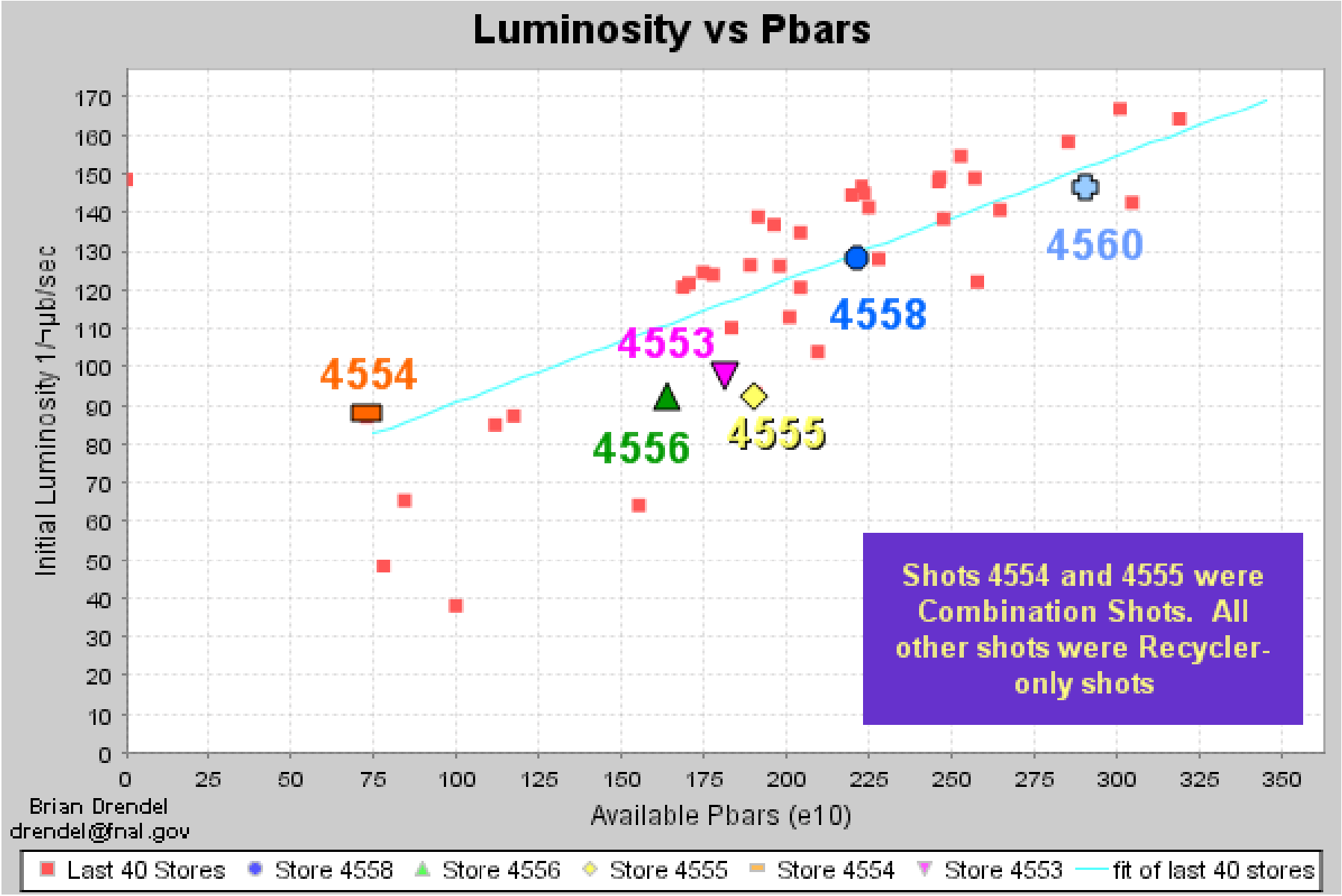

Users Summation (168.0 hrs.)
Fri Dec 23 07:41:48 2005
1917000.0
1437750.0
958500.0
479250.0
0.0
Sat 00:00 17-Dec 2005
Sun 00:00 18-Dec 2005
Mon 00:00 19-Dec 2005
Tue 00:00 20-Dec 2005
Wed 00:00 21-Dec 2005
Thu 00:00 22-Dec 2005
Fri 00:00 23-Dec 2005
MTEST 1.20e+09
MIPP 4.44e+08
MB 6.14e+18
NuMI 1.42e+18
shots to Tev
shots to RR
shots to Tev
NuMI off to Chiller work
Shots to RR;
shots to Tev
shots to RR
shots to RR
Shot set-up;
shots to RR
Shots to RR;
HEP Shot Setup
Shots to RR;
Shots to RR;
Shots to RR;
HEP shot setup
Shots to RR
Shots to RR
Transfers to RR
Transfers to RR
MI access
KRF6 trip
Access MI to fix RR cooling;
HVF12 will not turn on
MI access for RR cooling repairs.
RR vertical cooling problems.
NuMI target scans.
NUMI horn problems/investigation;
Swyd/Meson accesss. MS2 Glycol work.
Klystron Ignitron changeout
S:QP3 trouble
NUMI chiller condensate work
NuMI runs overnight
NuMI off for access

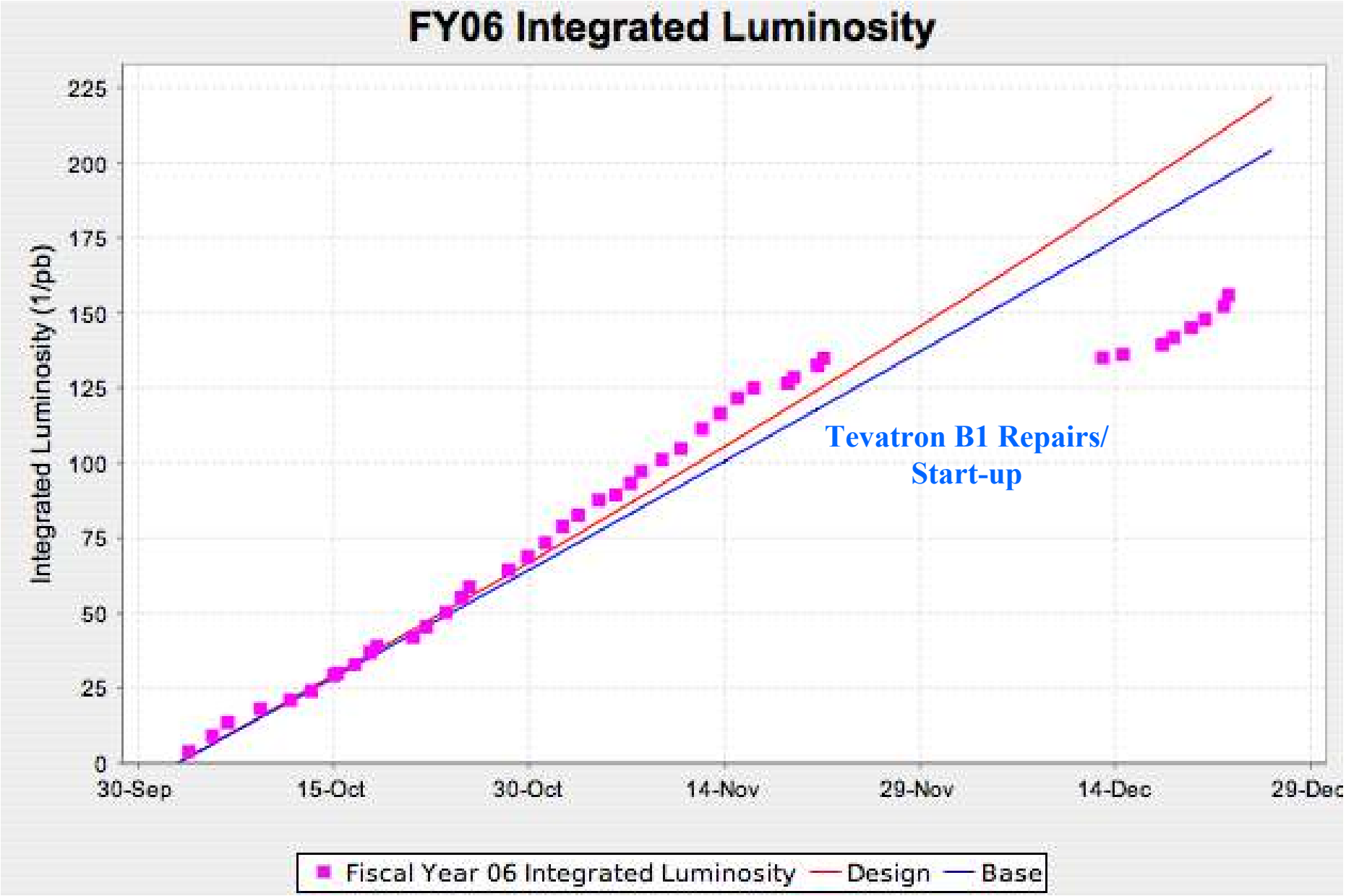

Pbar & Recycler Shift Plot (168.0 hrs.)
Fri Dec 23 08:03:08 2005
320.0
240.0
160.0
80.0
0.0
40.0
30.0
20.0
10.0
0.0
Collider shot setup
MI controlled access
KRF6 trip
RR transfers
Combo shot to TeV;
Access MI to fix RR cooling;
HVF12 will not turn on
Shots to RR;
HEP shot setup
MI controlled access for RR cooling repairs.
RR vertical cooling problems.
Pbar shots to RR.
Pbar shots to RR.
Shot set-up;
Recycler transfers.
Klystron Ignitron changeout
Shots to RR;
HEP Shot Setup
RR Shot Setup
Shots to RR;
Shots to RR;
Shots to RR;
HEP shot setup
Shots to RR
Shots to RR
Transfers to RR
A:IBEAM
R:IBEAM
Sat 00:00 17-Dec 2005
Sun 00:00 18-Dec 2005
Mon 00:00 19-Dec 2005
Tue 00:00 20-Dec 2005
Wed 00:00 21-Dec 2005
Thu 00:00 22-Dec 2005
Fri 00:00 23-Dec 2005

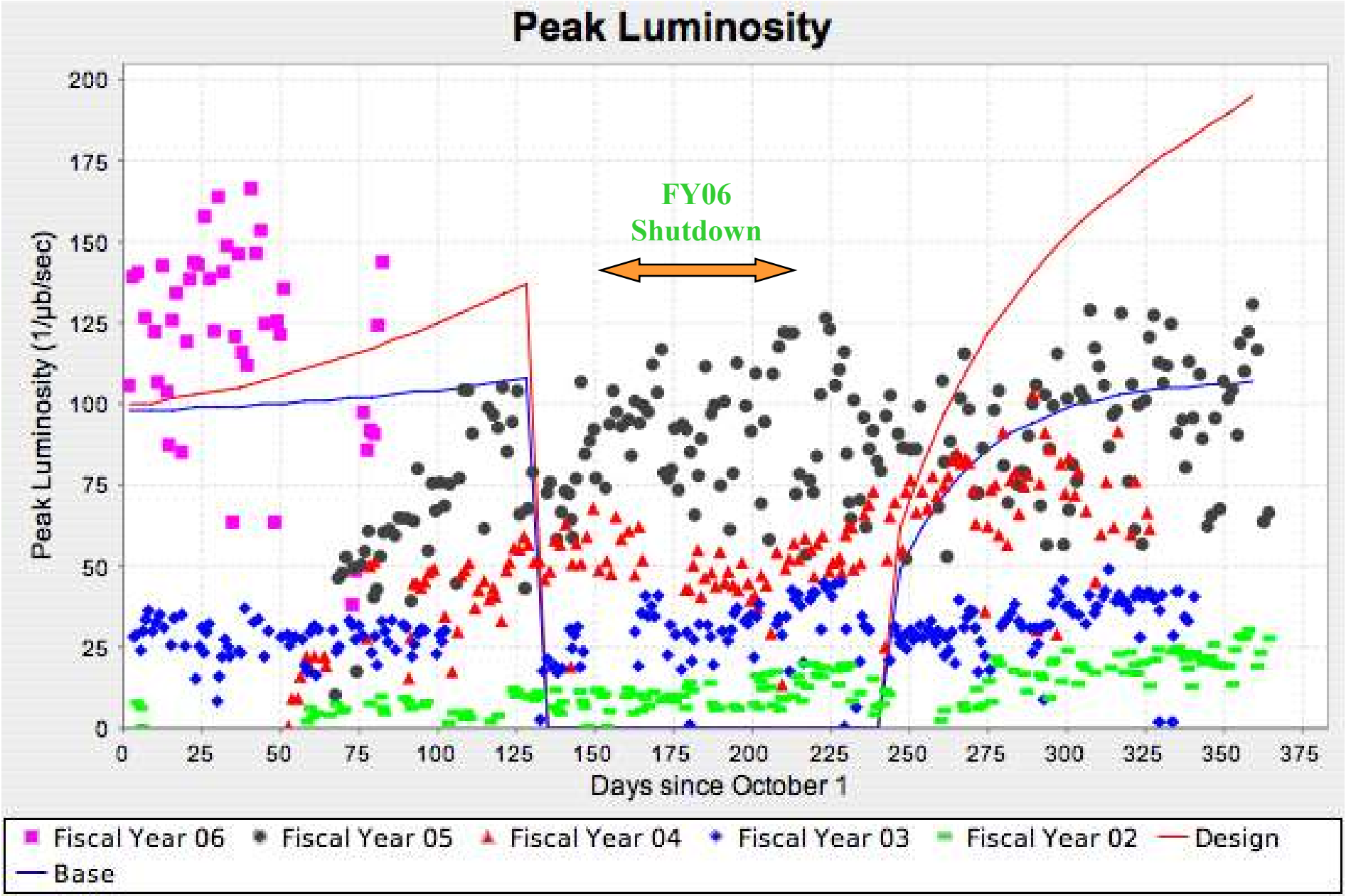

Tevatron (168.0 hrs.)
Fri Dec 23 07:53:37 2005
2.0
160.0
160.0
1.5
120.0
120.0
1.0
80.0
80.0
0.5
40.0
40.0
0.0
0.0
0.0
Conditioning seperators.
TeV ramp/dry squeeze
Store #4553 Ave: 98.3 E30
Store #4554 Ave: 87 E30
Quench D11H Sep spark
TeV recovery
Store 4555 Ave 93 E30.
Store 4556 Ave: 91.4 E30
Collision Hall access;
Store 4558, AIL: 128e30
B4 Wet Engine Work
CDF and D0 access
!!! Store 4560 Ini Lum: 143 e30
T:IBEAMB
C:B0ILUM
C:D0FZTL
Sat 00:00 17-Dec 2005
Sun 00:00 18-Dec 2005
Mon 00:00 19-Dec 2005
Tue 00:00 20-Dec 2005
Wed 00:00 21-Dec 2005
Thu 00:00 22-Dec 2005
Fri 00:00 23-Dec 2005

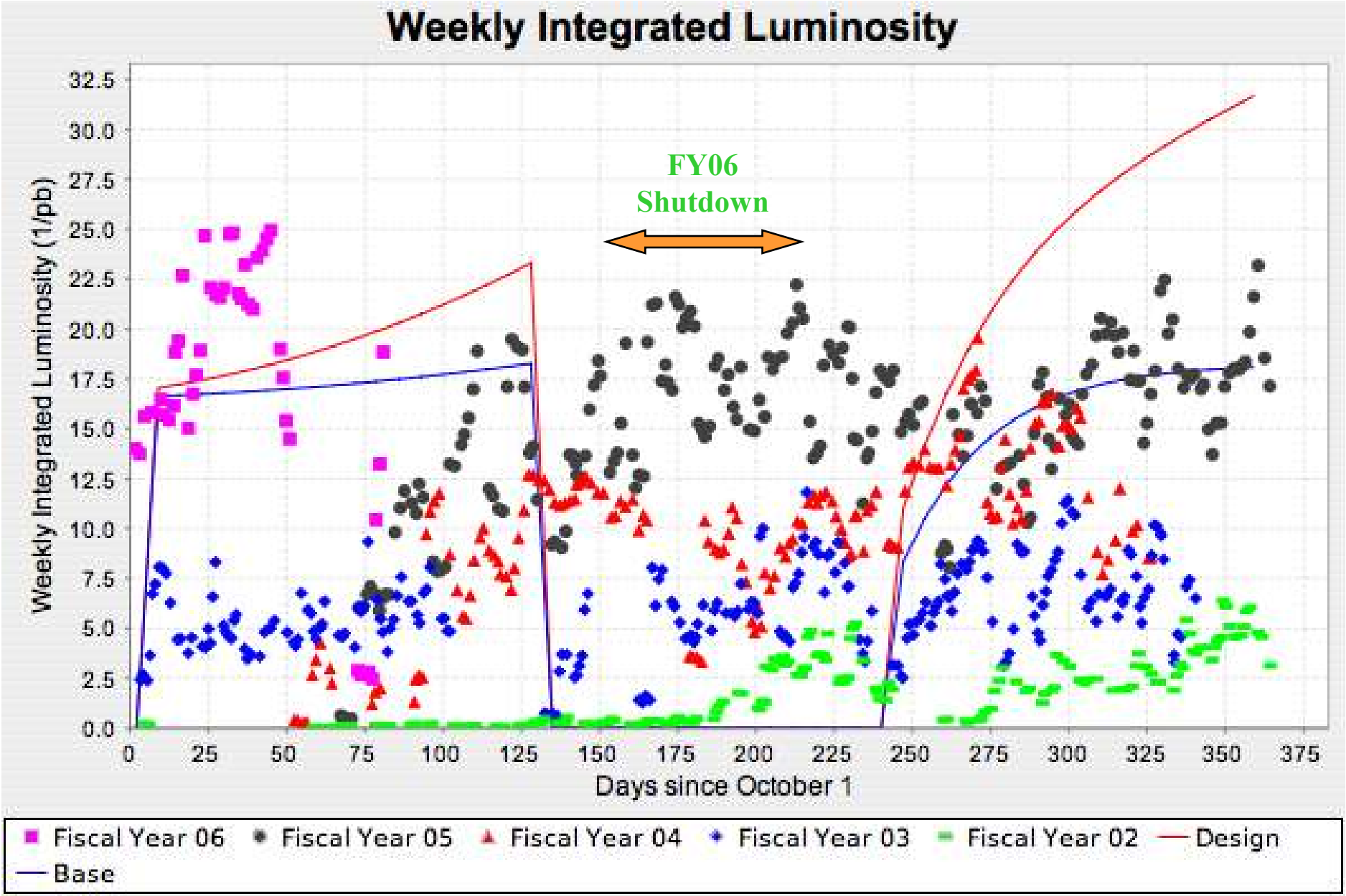
Integrated Luminosity

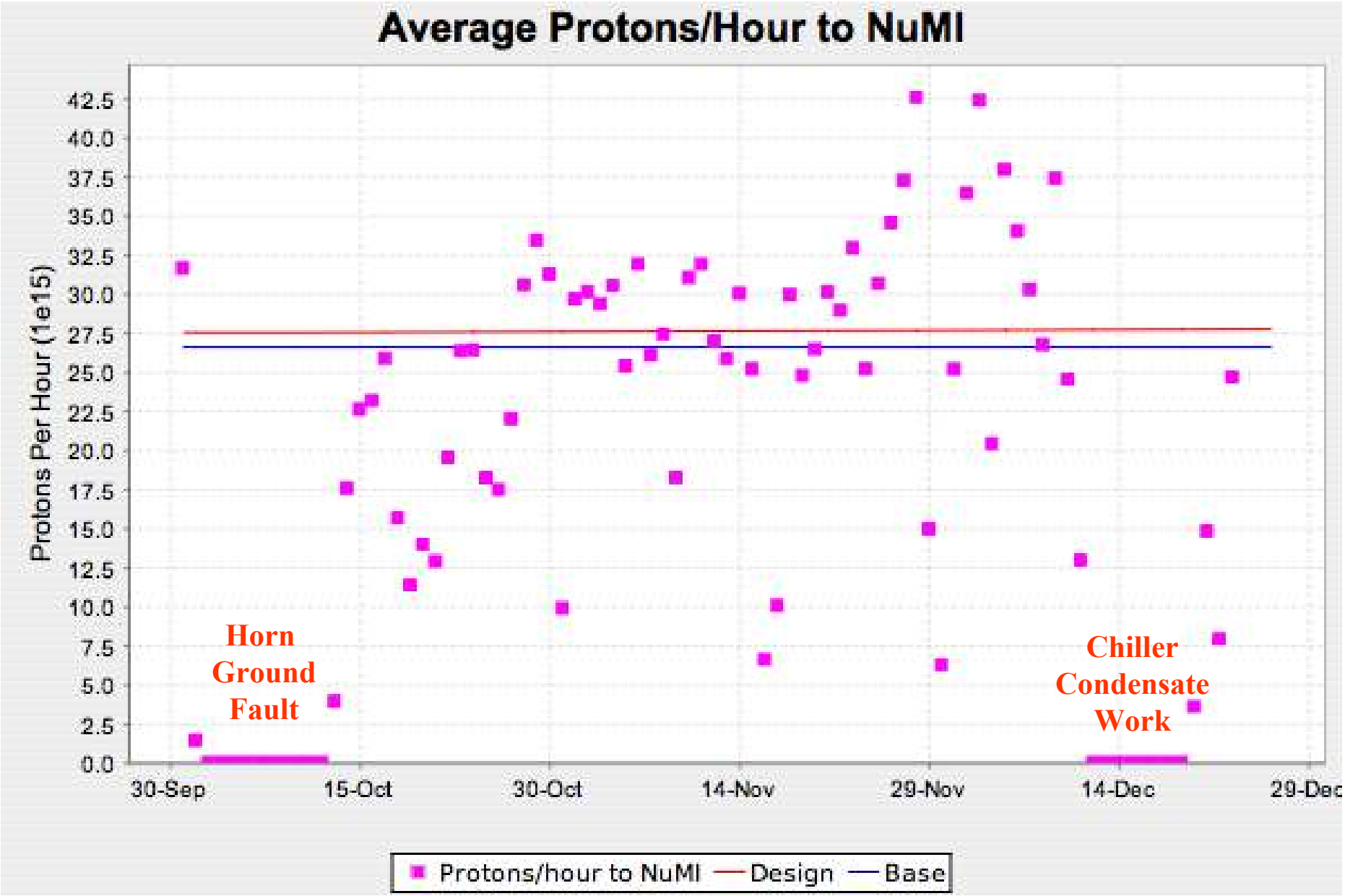


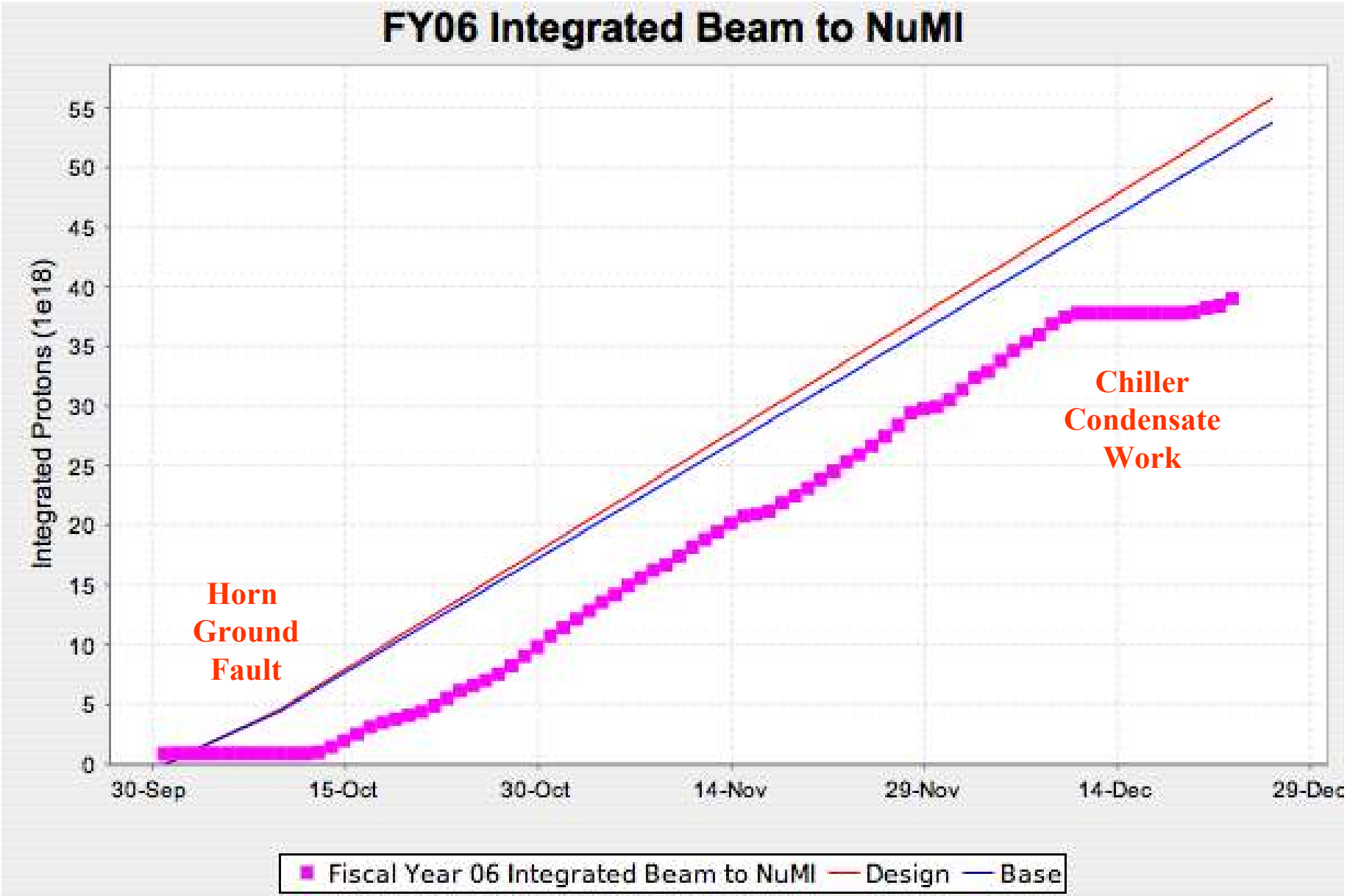

Luminosity vs Pbars
Initial Luminosity 1/¬µb/sec
Available Pbars (e10)
4554
4553
4556
4555
4558
4560
Shots 4554 and 4555 were Combination Shots. All other shots were Recycler-only shots
Brian Drendel
drendel@fnal.gov
Last 40 Stores
Store 4558
Store 4556
Store 4555
Store 4554
Store 4553
fit of last 40 stores

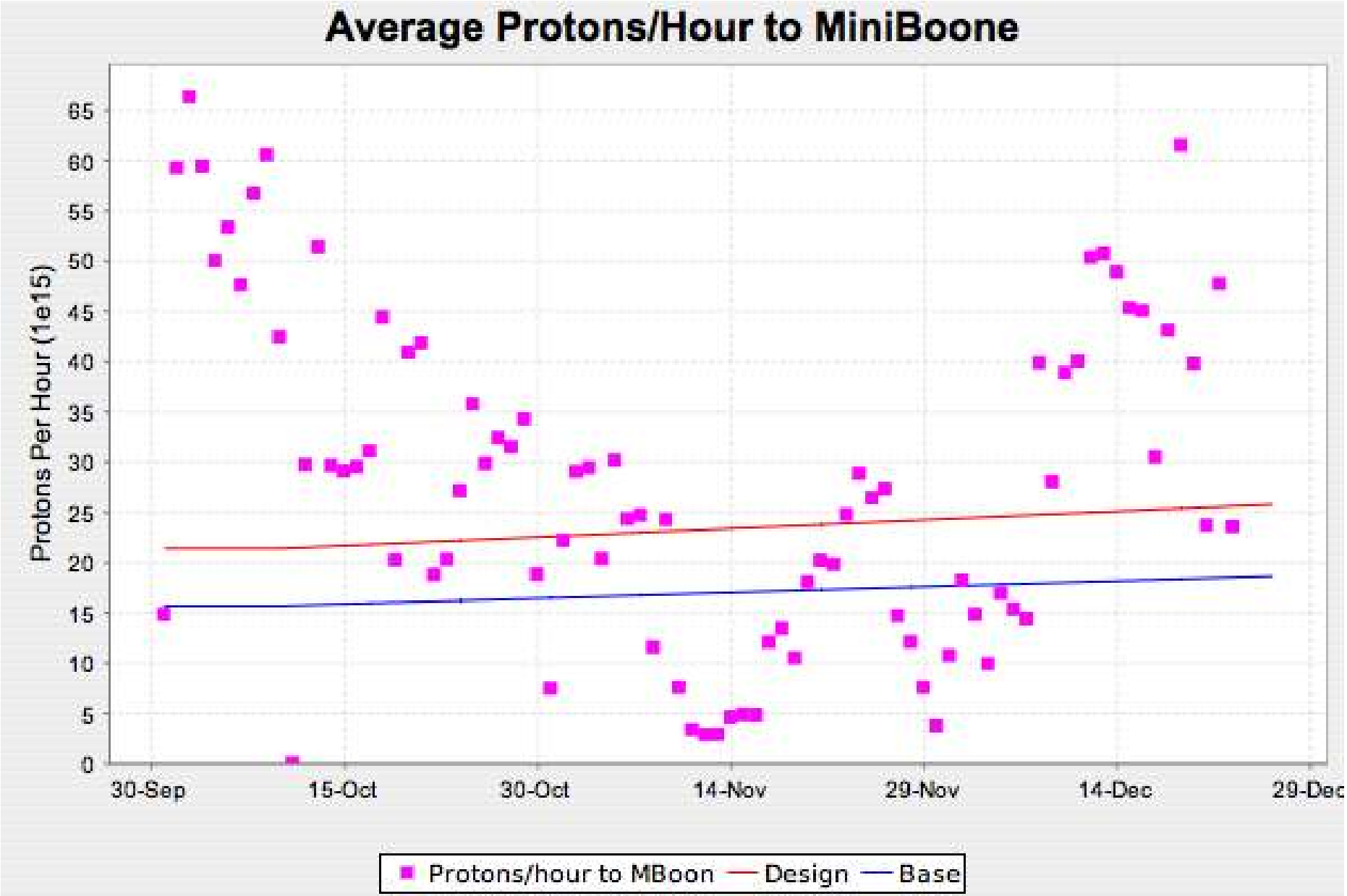

FY06 Integrated Luminosity
Integrated Luminosity (1/pb)
225
200
175
150
125
100
75
50
25
0
30-Sep
15-Oct
30-Oct
14-Nov
29-Nov
14-Dec
29-Dec
Tevatron B1 Repairs/
Start-up
Fiscal Year 06 Integrated Luminosity
Design
Base

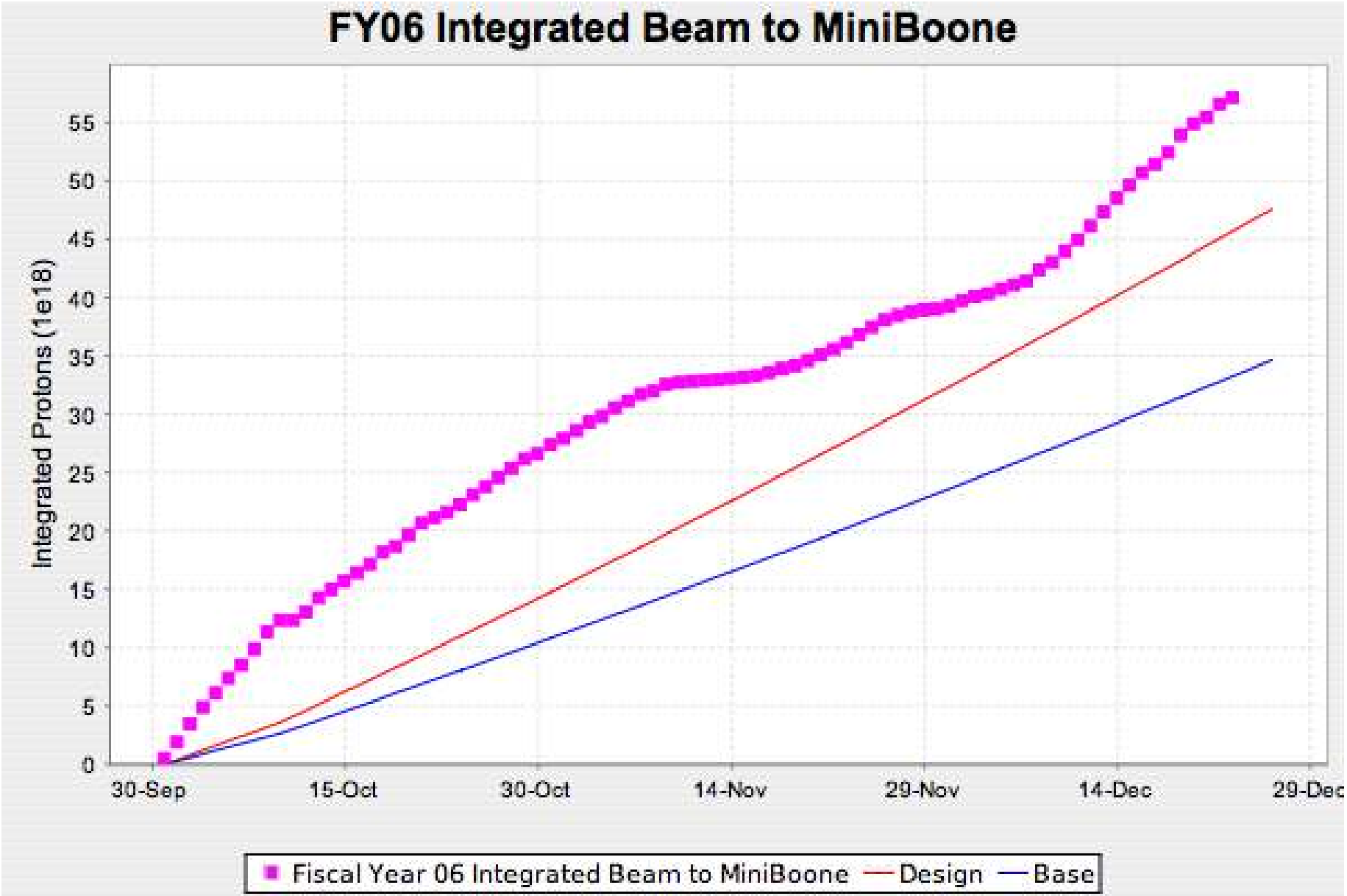

Peak Luminosity
FY06
Shutdown
Peak Luminosity (1/μb/sec)
Days since October 1
0
25
50
75
100
125
150
175
200
225
250
275
300
325
350
375
Fiscal Year 06
Fiscal Year 05
Fiscal Year 04
Fiscal Year 03
Fiscal Year 02
Design
Base


Weekly Integrated Luminosity
Weekly Integrated Luminosity (1/pb)
32.5
30.0
27.5
25.0
22.5
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0.0
0
25
50
75
100
125
150
175
200
225
250
275
300
325
350
375
Days since October 1
FY06
Shutdown
Fiscal Year 06
Fiscal Year 05
Fiscal Year 04
Fiscal Year 03
Fiscal Year 02
Design
Base


Average Protons/Hour to NuMI
Protons Per Hour (1e15)
42.5
40.0
37.5
35.0
32.5
30.0
27.5
25.0
22.5
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0.0
30-Sep
15-Oct
30-Oct
14-Nov
29-Nov
14-Dec
29-Dec
Horn Ground Fault
Chiller Condensate Work
Protons/hour to NuMI
Design
Base


FY06 Integrated Beam to NuMI
Integrated Protons (1e18)
55
50
45
40
35
30
25
20
15
10
5
0
30-Sep
15-Oct
30-Oct
14-Nov
29-Nov
14-Dec
29-Dec
Horn Ground Fault
Chiller Condensate Work
Fiscal Year 06 Integrated Beam to NuMI
Design
Base


Average Protons/Hour to MiniBoone
Protons Per Hour (1e15)
65
60
55
50
45
40
35
30
25
20
15
10
5
0
30-Sep
15-Oct
30-Oct
14-Nov
29-Nov
14-Dec
29-Dec
Protons/hour to MBoon
Design
Base


FY06 Integrated Beam to MiniBoone
Integrated Protons (1e18)
55
50
45
40
35
30
25
20
15
10
5
0
30-Sep
15-Oct
30-Oct
14-Nov
29-Nov
14-Dec
29-Dec
Fiscal Year 06 Integrated Beam to MiniBoone
Design
Base

No 9AM Meeting on Monday

Have a Happy and Safe Holiday